## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001677

Α. •	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	F15B 15/26, 13/01							
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)  See below under "Electronic databases searched"								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPTO								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: IPC: F15B 15/26, 15/00, 13/01, 13/00 with keywords ball?, lock+, inner+ and similar terms								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.					
	US 4951552A (FOX) 28 August 1990		1-16					
X	The whole document	1-10						
	US 2713328A (DRISKEL et al.) 19 July 195.	5						
x	· · · · · · · · · · · · · · · · · · ·							
P, X	EP 1473466A1 (LOGITRANS A/S) 3 Noven The whole document	1-16						
x	US 6186047B1 (BARUFFALDI) 13 Februar The whole document	1-3, 6-8, 13-16						
X F	urther documents are listed in the continuation	of Box C X See patent family annu	ex ·					
"A" documer not cons	"A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
alone  "L" document which may throw doubts on priority claim(s)  or which is cited to establish the publication date of another citation or other special reason (as specified)  alone  document of particular relevance; the claimed invention cannot be considered involve an inventive step when the document is combined with one or more such documents, such combination being obvious to a person skilled in the								
"O" document referring to an oral disclosure, use, exhibition "&" document member of the same patent family or other means "P" document published prior to the international filing date								
Date of the actu	than the priority date claimed ual completion of the international search	Date of mailing of the international search report 2 0 JAN 2005						
12 January 2	2005 ling address of the ISA/AU	Authorized officer						
AUSTRALIAN PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA : pct@ipaustralia.gov.au (02) 6285 3929	ASANKA PERERA Telephone No: (02) 6283 2373						

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001677

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appropriate, of the relevant passages						
	US 4635536A (LIU et al.) 13 January 1987	٠, ١					
Α	The whole document		1-16				
	EP 0170873B1 (KNORR-BREMSE AG) 16 September 1987		1.16				
Α	The whole document		1-16				
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001677

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Paten	nt Document Cited in Search Report			Pate	ent Family Member		
US	4951552						
US	2713328						
EP	1473466						·
US	6186047	AU	17688/97	EP	0879362	. IT	TO960100
		wo	9730291				
US	4635536						
EP	0170873	DE	3428228				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX